

Appl. No. : 10/705,548
Filed : November 10, 2003

AMENDMENTS TO THE CLAIMS

A complete listing of all claims is presented below.

1. (Cancelled)

2. (Previously Presented) A multi-zonal monofocal ophthalmic lens comprising:

an optic comprising a plurality of zones, including:

an inner zone having a first optical power;

an intermediate zone surrounding the inner zone and having a second optical power that is different from the first power by a magnitude that is less than about 0.75 Diopter; and

an outer zone surrounding the intermediate zone having a third optical power different from the second optical power;

the plurality of zones all disposed such that light entering the entire optic from a distant point source is focused to substantially a single point;

wherein the third optical power is equal to the first optical power.

3-22. (Cancelled)

23. (Currently Amended) ~~A method as in claim 22,~~ A method of designing a multi-zonal monofocal ophthalmic lens, comprising:

providing an optical model of the human eye;

providing an optical model of a lens comprising an inner zone, an intermediate zone, an outer zone, and zonal design parameters, the inner zone, the intermediate zone, and the outer zone disposed such that all light entering the inner zone, the intermediate zone, and the outer zone of the monofocal ophthalmic lens from a distant point source is focused to substantially a single point;

adjusting the zonal design parameters based on an image output parameter for one or more non-optimal states of the lens; and

~~further including~~ testing the intraocular lens over a plurality of corneal surface variations and dispositions of optical elements in the eye's optical system using tolerance analyzing techniques.

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24. (Currently Amended) ~~A method as in claim 22,~~ A method of designing a multi-zonal monofocal ophthalmic lens, comprising:

providing an optical model of the human eye;

providing an optical model of a lens comprising an inner zone, an intermediate zone, an outer zone, and zonal design parameters, the inner zone, the intermediate zone, and the outer zone disposed such that all light entering the inner zone, the intermediate zone, and the outer zone of the monofocal ophthalmic lens from a distant point source is focused to substantially a single point;

adjusting the zonal design parameters based on an image output parameter for one or more non-optimal states of the lens; and

~~further comprising~~ repeating at least a portion of the method to modify zonal parameters and achieve a better average optical performance.

25-45 (Cancelled)